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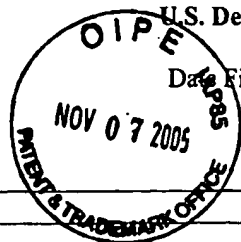
DOCKET NO.: 53893-5046

APPLN. NO. :
10/767,648

APPLICANT: James A. Hoxie

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January 29, 2004

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U.S. PATENT DOCUMENTS

OTHER DOCUMENT(S) *(Including Author, Title, Date, Pertinent Pages, etc.)*

AB	AGUILAR, H. C. et al., "Cytoplasmic Tail of Moloney Murine Leukemia Virus Envelope Protein Influences the Conformation of the Extracellular Domain: Implications for Mechanism of Action of the R Peptide," <i>Journal of Virology</i> , Vol. 77, pp. 1281-1291, 2003.
AB	ALLAN, J. S. et al., "Major Glycoprotein Antigens That Induce Antibodies in AIDS Patients are Encoded by HTLV-III," <i>Science</i> , Vol. 228, pp. 1091-1094, 1985.
AB	ALKHATIB, G. et al., "CC CKR5: a RANTES, MIP-1 α , MIP-1 β Receptor as a Fusion Cofactor for Macrophage-Tropic HIV-1," <i>Science</i> Vol. 272, pp. 1955-1958, 1996.
AB	ANDREASSEN, H. et al., "Analysis of the Secondary Structure of the Human Immunodeficiency Virus (HIV) Proteins p17, gp120, and gp41 by Computer Modeling Based on Neural Network Methods," <i>J. Acquired Immune. Deficiency Syndrome</i> , Vol. 3; pp. 615-622, 1990.
AB	BABA, T. W. et al, "Human Neutralizing Monoclonal Antibodies of the igG1 Subtype Protect Against Mucosal Simian-Human Immunodeficiency Virus Infection," <i>Nature Med.</i> Vol. 6, p. 200-206, 2000.
AB	BARNETT, S. W., et al., "The Ability of an Oligomeric Human Immunodeficiency Virus Type 1 (HIV-1) Envelope Antigen to Elicit Neutralizing Antibodies Against Primary HIV-2 Isolates is Improved Following Partial Deletion of the Second Hypervariable Region," <i>Journal of Virology</i> , Vol. 75, pp. 5526-5540, 2001.
AB	BASMACIOGULLARI, S. et al., "Identification of Conserved and Variable Structures in the Human Immunodeficiency Virus gp120 Glycoprotein of Importance for CXCR4 Binding," <i>Journal of Virology</i> , Vol. 76, pp. 10791-10800, 2002.
AB	BERGER, E. A. et al., "HIV Entry and Tropism: The Chemokine Receptor Connection," <i>AIDS</i> , Vol. 11, pp. S3-S16, 1997.
AB	BINLEY, J. M. et al., "A Recombinant Human Immunodeficiency Virus Type 1 Envelope Glycoprotein Complex Stabilized by an Intermolecular Disulfide Bond Between the gp120 and gp41 Subunits is an Antigenic Mimic of the Trimeric Virion-Associated Structure," <i>Journal of Virology</i> , Vol. 74, pp. 627-643, 2000.
AB	BOLMSTEDT, A. et al., "Enhanced Immunogenicity of a Human Immunodeficiency Virus Type 1 env DNA Vaccine by Manipulating N-Glycosylation Signals. Effects of Elimination of the V3 N306 Glycan," <i>Vaccine</i> , Vol. 20:, pp. 397-405, 2002.
AB	CALARESE, D. A. et al., "Antibody Domain Exchange is an Immunological Solution to Carbohydrate Cluster Recognition," <i>Science</i> , Vol. 300, pp. 2065-2071, 2003.
AB	CHAN, D. C. et al., "Core Structure of gp41 From the HIV Envelope Glycoprotein," <i>Cell</i> , Vol. 89, pp. 263-273, 1997.
AB	CHERTOVA, E. et al., "Envelope Glycoprotein Incorporation, Not Shedding of Surface Envelope Glycoprotein (gp120/SU), Is the Primary Determinant of SU Content of Purified Human Immunodeficiency Virus Type 1 and Simian Immunodeficiency Virus," <i>Journal of Virology</i> , Vol. 76, pp. 5315-5325, 2002.

Form PTO-1449		DOCKET NO.: 53893-5046	APPLN. NO. : 10/767,648
U.S. Department of Commerce		APPLICANT: James A. Hoxie	
Date Filed: _____		FILING DATE: January 29, 2004	GROUP: 1645

AB	CHERTOVA, et al., "Sites, Mechanism of Action and Lack of Reversibility of Primate Lentivirus Inactivation by Preferential Covalent Modification of Virion Internal Proteins," <i>Curr. Mol. Med.</i> , Vol. 3, pp. 265-272, 2003.
AB	CHOE, H. et al., "The β -Chemokine Receptors CCR3 and CCR5 Facilitate Infection by Primary HIV-1 Isolates," <i>Cell</i> , Vol. 85, pp. 1135-1148, 1996.
AB	CHOE, H. et al., "Tyrosine Sulfation of Human Antibodies Contributes to Recognition of the CCR5 Binding Region of HIV-1 gp120," <i>Cell</i> , Vol. 114, pp. 161-170, 2003.
AB	CONNOR, R. et al., "Change in Coreceptor use Correlates With Disease Progression in HIV-1-Infected Individuals," <i>Journal Exp. Med.</i> , Vol. 185, pp. 621-628, 1997.
AB	CORMIER, E.G. et al., "The Crown and Stem of the V3 Loop Play Distinct Roles in Human Immunodeficiency Virus Type 1 Envelope Glycoprotein Interactions with the CCR5 Coreceptor," <i>Journal of Virology</i> , Vol. 76, pp. 8953-8957, 2002.
AB	DENG, H. et al., "Expression Cloning of New Receptors Used by Simian and Human Immunodeficiency Viruses," <i>Nature</i> , Vol. 388, pp. 296-300, 1997.
AB	DENG, H. et al., "Identification of a Major Co-Receptor for Primary Isolates of HIV-1," <i>Nature</i> , Vol. 381, pp. 661-666, 1996.
AB	DEY, B. et al., "Neutralization of Human Immunodeficiency Virus Type 1 by sCD4-17b, a Single-Chain Chimeric Protein, Based on Sequential Interaction of gp120 with CD4 and Coreceptor," <i>Journal of Virology</i> , Vol. 77, 2859-2865, 2003.
AB	DORANZ, B. et al., "A Dual Tropic Primary HIV-1 Isolate That Uses Fusion and the β -Chemokine Receptors CKR-5, CKR-3 and CKR-2b as Fusion Cofactors," <i>Cell</i> , Vol. 85, pp. 1149-1158, 1996.
AB	DRAGIC, T. et al., "HIV-1 Entry Into CD4+ Cells is Mediated by the Chemokine Receptor CC-CKR-5," <i>Nature</i> , Vol. 381, pp. 667-673, 1996.
AB	DRAGIC, T. et al., "An Overview of the Determinants of CCR5 and CXCR4 Co-Receptor Function," <i>Journal of General Virology</i> , Vol. 82, pp. 1807-1814, 2001.
AB	EARL, P. L. et al., "Oligomeric Structure of the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein," <i>Proc. Nat. Acad. Sci. USA</i> , Vol. 87, pp. 648-652, 1990.
AB	EDINGER, A. L. et al., "CD4-Independent, CCR5-Dependent Infection of Brain Capillary Endothelial Cells by a Neurovirulent SIV Strain," <i>Proc. Natl. Acad. Sci., USA</i> , Vol. 94, pp. 14742-14747, 1997.
AB	EDWARDS, T. G. et al., "Relationships Between CD4 Independence, Neutralization Sensitivity, and Exposure of a CD4-Induced Epitope in a Human Immunodeficiency Virus Type 1 Envelope Protein," <i>Journal of Virology</i> , Vol. 75, pp. 5230-5239, 2001.
AB	EDWARDS, T. G. et al., "Truncation of the Cytoplasmic Domain Induces Exposure of Conserved Regions in the Ectodomain of Human Immunodeficiency Virus Type 1 Envelope Protein," <i>Journal of Virology</i> , Vol. 76, pp. 2683-2691, 2002.
AB	EISENBERG, D. et al., "The Most Highly Amphiphilic Alpha-Helices Include Two Amino Acid Segments in Human Immunodeficiency Virus Glycoprotein 41," <i>Biopolymers</i> , Vol. 29, pp. 171-177, 1990.
AB	ENDRES, M. J. et al., "CD4-Independent Infection by HIV-2 is Mediated by Fusion/CXCR4," <i>Cell</i> , Vol. 87, pp. 745-756, 1996.
AB	FARZAN, M. et al., "Tyrosine-Sulfated Peptides Functionally Reconstitute a CCR5 Variant Lacking a Critical Amino-Terminal Region*," <i>The Journal of Biological Chemistry</i> , Vol. 277, pp. 40397-40402, 2002.
AB	FARZAN, M. et al., "A Tyrosine-Sulfated Peptide Based on the N Terminus of CCR5 Interacts With a CD4-Enhanced Epitope of the HIV-1 gp120 Envelope Glycoprotein and Inhibits HIV-1 Entry," <i>The Journal of Biological Chemistry</i> , Vol. 275, pp. 33516-33521, 2000.
AB	FARZAN, M. et al., "Tyrosine Sulfation of the Amino Terminus of CCR5 Facilitates HIV-1 Entry," <i>Cell</i> , Vol. 96, pp. 667-676, 1999.

U.S. Department of Commerce

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GROUP: 1645

AB	FARZAN, M. et al., "Two Orphan Seven-Transmembrane Segment Receptors Which are Expressed in CD-4-Positive Cells Support Simian Immunodeficiency Virus Infection," <i>Journal Exp. Medicine</i> , Vol. 186, pp. 405-411, 1997.
AB	FENG, Y. et al., "HIV-1 Entry Cofactor: Functional cDNA Cloning of a Seven-Transmembrane, G Protein-Coupled Receptor," <i>Science</i> , Vol. 272, pp. 872-876, 1996.
AB	FOUTS, T. R. et al., "Neutralization of the Human Immunodeficiency Virus Type 1 Primary Isolate JR-FL by Human Monoclonal Antibodies Correlates With Antibody Binding to the Oligomeric Form of the Envelope Glycoprotein Complex," <i>Journal of Virology</i> , Vol. 71, pp. 2779-2285, 1997.
AB	FOUTS, T. et al., "Crosslinked HIV-1 Envelope-CD4 Receptor Complexes Elicit Broadly Cross-Reactive Neutralizing Antibodies in Rhesus Macques," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 99, pp. 11842-11847, 2002.
AB	GALLO, S. A. et al., "HIV-1 gp41 Six-Helix Bundle formation Occurs Rapidly After the Engagement of gp120 by CXCR4 in the HIV-1 Env-Mediated Fusion Process," <i>Biochemistry</i> , Vol. 40, pp. 12231-12236, 2001.
AB	GRUNDNER, C. et al., "Solid-Phase Proteoliposomes Containing Human Immunodeficiency Virus Envelope Glycoproteins," <i>Journal of Virology</i> , Vol. 76, pp. 3511-3521, 2002.
AB	HO, D.D. et al., "Conformational Epitope on gp120 Important in CD4 Binding and Human Immunodeficiency Virus Type 1 Neutralization Identified by a Human Monoclonal Antibody," <i>Journal of Virology</i> , Vol. 65, pp. 489-493, 1991.
AB	HOFFMAN, T. L., et al., "Chemokines and Coreceptors in HIV/SIV-Host Interactions," <i>AIDS</i> , Vol. 12, pp. S17-S26, 1998.
AB	HOFFMAN, T. L. et al., "A Biosensor Assay for Studying Ligand-Membrane Receptor Interactions: Binding of Antibodies and HIV-1 Env to Chemokine Receptors," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 97, pp. 11215-11220, 2000.
AB	HOXIE, J. A., "Hypothetical Assignment of Intrachain Disulfide Bonds for HIV-2 and SIV Envelope Glycoproteins," <i>AIDS Res. Hum. Retroviruses</i> , Vol. 7, pp. 495-499, 1991.
AB	JONES, P. L. et al., "Conformational Changes in Cell Surface HIV-1 Envelope Glycoproteins are Triggered by Cooperation Between Cell Surface CD4 and Co-Receptors," <i>The Journal of Biological Chemistry</i> , Vol. 273, pp. 404-409, 1998
AB	JOHNSON, W. E. et al., "Importance of B-Cell Responses for Immunological Control of Variant Strains of Simian Immunodeficiency Virus," <i>Journal of Virology</i> , Vol. 77, pp. 375-381, 2003.
AB	KALIA, V. et al., "Rational Site-Directed Mutations of the LLP-1 and LLP-2 Lentivirus Lytic Peptide Domains in the Intracytoplasmic Tail of Human Immunodeficiency Virus Type 1 gp41 Indicate Common Functions in Cell-Cell Fusion but Distinct Roles in Virion Envelope Incorporation," <i>Journal of Virology</i> , Vol. 77, pp. 3634-3646, 2003.
AB	KESSLER, J. A. et al., "Recombinant Human Monoclonal Antibody igG1b12 Neutralizes Diverse Human Immunodeficiency Virus Type 1 Primary Isolates," <i>AIDS Res. Hum. Retroviruses</i> , Vol. 13, pp. 575-582, 1997.
AB	KIM, Y. et al., "Immunogenicity and Ability of Variable Loop-Deleted Human Immunodeficiency Virus Type 1 Envelope Glycoproteins to Elicit Neutralizing Antibodies," <i>Virology</i> , Vol. 305, pp. 124-137, 2003.
AB	KLIGER, P. D. et al., "A Leucine Zipper-Like Sequence from the Cytoplasmic Tail of the HIV-1 Envelope Glycoprotein Binds and Perturbs Lipid Bilayers," <i>Biochemistry</i> , Vol. 36, pp. 5157-5169, 1997.
AB	KWONG, P. D. et al., "Structure of an HIV gp120 Envelope Glycoprotein in Complex With the CD4 Receptor and a Neutralizing Human Antibody, <i>Nature</i> , Vol. 393, pp. 648-659, 1998.
AB	KWONG et al., "Structure of an HIV gp120 Envelope Glycoproteins From Laboratory-Adapted and Primary Isolates, <i>Structure Fold Des.</i> , Vol. 8, pp. 1329-1339, 2000.

U.S. Department of Commerce Date Filed: _____	DOCKET NO.: 53893-5046	APPLN. NO. : 10/767,648
	APPLICANT: James A. Hoxie	
	FILING DATE: January 29, 2004	GROUP: 1645

AB	KWONG, P. D. et al., "Oligomeric Modeling and Electrostatic Analysis of the gp120 Envelope Glycoprotein of Human Immunodeficiency Virus," <i>Journal of Virology</i> , Vol. 74, pp. 1961-1972, 2000.
AB	KWONG, P. D. et al., "HIV-1 Evades Antibody-Mediated Neutralization Through conformational Masking of Receptor-Binding Sites, <i>Nature</i> , Vol. 420, pp. 678-682, 2002.
AB	LABRIJN, A. F. et al., "Access of Antibody Molecules to the Conserved Coreceptor Binding Site on Glycoprotein gp120 is Sterically Restricted on Primary Human Immunodeficiency Virus Type 1," <i>Journal of Virology</i> , Vol. 77, pp. 10557-10565, 2003.
AB	LEE, B. et al. "Epitope Mapping of CCR5 Reveals Multiple Conformational States and Distinct but Overlapping Structures Involved in Chemokine and Coreceptor Function," <i>The Journal of Biological Chemistry</i> , Vol. 274, pp. 9617-9626, 1999.
AB	LIAO, F. et al., "A Novel Chemokine Receptor-Like Protein, Functions as a Fusion Cofactor for Both Macrophage-Tropic and T Cell Line-/Tropic HIV-1," <i>Journal Exp. Med.</i> , Vol. 185, pp. 2015-2023, 1997.
AB	LIFSON, J. D. et al., "Whole Inactivated SIV Virion Vaccines With Functional Envelope Glycoproteins: Safety, Immunogenicity, and Activity Against Intrarectal Challenge," <i>J. Med. Primatol.</i> , Vol. 31, pp. 205-216, 2002.
AB	LIN, G. et al., "CD4-Independent use of Rhesus CR5 by Human Immunodeficiency Virus Type 2 Implicates an Electrostatic Interaction Between the CCR5 N Terminus and the gp120 C4 Domain," <i>Journal of Virology</i> , Vol. 75, pp. 10766-10778, 2001.
AB	LIN, G. et al., "Identification of gp120 Binding Sites on CXCR4 by Using CD4-Independent Human Immunodeficiency Virus Type 2 Env Proteins," <i>Journal of Virology</i> , Vol. 77, pp. 931-942, 2003.
AB	LU, S. et al., "Immunogenicity of DNA Vaccines Expressing Human Immunodeficiency Virus Type 1 Envelope Glycoprotein With and Without Deletions in the V1/2 and V3 Regions," <i>AIDS Res. Hum. Retroviruses</i> , Vol. 14, pp. 151-155, 1998.
AB	MARTIN, I. et al., "Lipid Membrane Fusion Induced by the Human Immunodeficiency Virus Type 1 gp41 N-Terminal Extremity is Determined by its Orientation in the Lipid Bilayer," <i>Journal of Virology</i> , Vol. 70, pp. 298-304, 1996.
AB	MASCOLA, J. R. et al., "Protection of Macaques against Pathogenic Simian/Human Immunodeficiency Virus 89.6PD by Passive Transfer of Neutralizing Antibodies," <i>Journal of Virology</i> , Vol. 73, pp. 4009-4018, 1999.
AB	MASCOLA, J. R. et al., "Protection of Macaques Against Vaginal transmission of a Pathogenic HIV-1/SIV Chimeric Virus by Passive Infusion of Neutralizing Antibodies," <i>Nat. Med.</i> , Vol. 6:, pp. 207-210, 2000.
AB	McMICHAEL, A. J. et al., "HIV Vaccines 1983-2003, <i>Nature Med.</i> , Vol. 9, pp. 874-880, 2003.
AB	MELIKYAN, G.B. et al., "Evidence that the Transition of HIV-1 gp41 into a Six-Helix Bundle, Not the Bundle Configuration, Induces Membrane Fusion," <i>The Journal of Cell Biology</i> , Vol. 151, pp. 413-423, 2000.
AB	MELIKYAN, G.B. et al., "Role of the Cytoplasmic Tail of Ecotropic Moloney Murine Leukemia Virus Env Protein in Fusion Pore Formation," <i>Journal of Virology</i> , Vol. 74, pp. 447-455, 2000.
AB	MILLER, M. A. et al., "Alterations in Cell Membrane Permeability by the Lentivirus Lytic Peptide (LLP-1) of HIV-1 Transmembrane Protein," <i>Virology</i> , Vol. 196, pp. 89-100, 1993.
AB	MILLER, M. A. et al., "Identification of a Calmodulin-Binding and Inhibitory Peptide Domain in the HIV-1 Transmembrane Glycoprotein," <i>AIDS Research and Human Retroviruses</i> , Vol. 9, pp. 1057-1066, 1993.
AB	MODROW, S. et al., "Computer-Assisted Analysis of Envelope Protein Sequences of Seven Human Immunodeficiency Virus Isolates: Prediction of Antigenic Epitopes in Conserved and Variable Regions," <i>Journal of Virology</i> , Vol. 61, pp. 570-578, 1987.

U.S. Department of Commerce Date Filed: _____	DOCKET NO.: 53893-5046	APPLN. NO. : 10/767,648
	APPLICANT: James A. Hoxie	
	FILING DATE: January 29, 2004	GROUP: 1645

AB	MOORE, J.P. et al., "Probing the Structure of the V2 Domain of Human Immunodeficiency Virus Type 1 Surface Glycoprotein gp120 with a Panel of Eight Monoclonal Antibodies: Human Immune Response to the V1 and V2 Domains," <i>Journal of Virology</i> , Vol. 67, pp. 6136-6151, 1993.
AB	MOORE, J. P. et al., "Probing the Structure of the Human Immunodeficiency Virus Surface Glycoprotein gp120 with a Panel of Monoclonal Antibodies," <i>Journal of Virology</i> , Vol. 68, pp. 469-484, 1994.
AB	MOULARD, M. et al., "Broadly Cross-Reactive HIV-1-Neutralizing Human Monoclonal Fab Selected for Binding to gp120-CD4-CCR5 Complexes," <i>Proc. Natl. Acad. Sci USA</i> , Vol. 99, pp. 6913-6918, 2002.
AB	MUSTER, T. et al., "A Conserved Neutralizing Epitope on gp41 of Human Immunodeficiency Virus Type 1," <i>Journal of Virology</i> , Vol. 67, pp. 6642-6647, 1993.
AB	MYSZKA, D.G. et al., "Energetics of the HIV gp120-CD4 Binding Reaction," <i>Proc. Natl. Acad. Sci USA</i> , Vol. 97, pp. 9026-9031, 2000.
AB	OLSON, W. C. et al., "Differential Inhibition of Human Immunodeficiency Virus Type 1 Fusion, gp120 Binding, and CC-Chemokine Activity by Monoclonal Antibodies to CCR5," <i>Journal of Virology</i> , Vol. 73, pp. 4145-4155, 1999.
AB	OLSON, K. E. P. et al., "Palmitoylation of the Intracytoplasmic R Peptide of the Transmembrane Envelope Protein in Moloney Murine Leukemia Virus," <i>Journal of Virology</i> , Vol. 73, pp. 8975-8981, 1999.
AB	PARKER, C. E. et al., "Fine Definition of the Epitope on the gp41 Glycoprotein of Human Immunodeficiency Virus Type 1 for the Neutralizing Monoclonal Antibody 2F5," <i>Journal of Virology</i> , Vol. 75, pp. 10906-10911, 2001.
AB	PARREN, P. W. et al., "The Neutralizing Antibody Response to HIV-1: Viral Evasion and Escape From Humoral Immunity," <i>AIDS</i> , Vol. 13, pp. S137-S162, 1993.
AB	PEREIRA, F. B. et al., "Permeabilization and Fusion of Uncharged Lipid Vesicles Induced by the HIV-1 Fusion Peptide Adopting an Extended Conformation: Dose and Sequence Effects," <i>Biophys. J.</i> , Vol. 73, pp. 1977-1986, 1997.
AB	PINTER, A. et al., "Oligomeric Structure of gp41, the Transmembrane Protein of Human Immunodeficiency Virus Type 1," <i>Journal of Virology</i> , Vol. 63, pp. 2674-2679, 1989.
AB	POSNER, M. R. et al., "An IgG Human Monoclonal Antibody That Reacts With HIV-1/GP120, Inhibits Virus Binding to Cells, and Neutralizes Infection," <i>J. Immunol.</i> , Vol. 146, pp. 4325-4332, 1991.
AB	PUFFER, B.A. et al., "CD4 Independence of Simian Immunodeficiency Virus Envs is Associated with Macrophage Tropism, Neutralization Sensitivity, and Attenuated Pathogenicity," <i>Journal of Virology</i> , Vol. 76, pp. 2595-2605, 2002.
AB	REITTER, J. N. et al., "A Role for Carbohydrates in Immune Evasion in AIDS," <i>Nat. Med.</i> , Vol. 4, pp. 679-684, 1998.
AB	RICHMAN, D. D. et al., "Rapid Evolution of the Neutralizing Antibody Response to HIV Type 1 infection," <i>Proc. Nat. Acad. Sci. USA</i> , Vol. 100, pp. 4144-4149, 2003.
AB	RIZZUTO, C.D. et al., "A Conserved HIV gp120 Glycoprotein Structure Involved in Chemokine Receptor Binding," <i>Science</i> , Vol. 280, pp. 1949-1953, 1998.
AB	RIZZUTO, C. et al., "Fine Definition of a conserved CCR-5-Binding Region on the Human Immunodeficiency Virus type 1 Glycoprotein 120," <i>AIDS Res. Hum. Retroviruses</i> , Vol. 16, pp. 741-749, 2000.
AB	ROBEY, W. G. et al., "Characterization of Envelope and Core Structural Gene Products of HTLV-III With Sera From AIDS Patients," <i>Science</i> , Vol. 228, pp. 593-595, 1985.
AB	ROUSSO, I. et al., "Palmitoylation of the HIV-1 Envelope Glycoprotein is Critical for Viral Infectivity," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 97, No. 25, pp. 13523-13525, 2000.

Sheet 6 of 7 Form PTO-1449 U.S. Department of Commerce Date Filed: _____		DOCKET NO.: 53893-5046 APPLICANT: James A. Hoxie	APPLN. NO. : 10/767,648
		FILING DATE: January 29, 2004	GROUP: 1645

AB	RUCKER, J. et al., "Utilization of Chemokine Receptors, Orphan Receptors and Herpesvirus-Encoded Receptors by Diverse Human and Simian Immunodeficiency Viruses," <i>Journal of Virology</i> , Vol. 71, pp. 8999-9007, 1997.
AB	RUPRECHT, R. M. et al., "Antibody Protection: Passive Immunization of Neonates Against Oral AIDS Virus Challenge," <i>Vaccine</i> , Vol. 21, pp. 3370-3373, 2003.
AB	SANDERS, R. W. et al., "Variable-Loop-Deleted Variants of the Human Immunodeficiency Virus Type 1 Envelope Glycoprotein can be Stabilized by an Intermolecular Disulfide Bond Between the gp120 and gp41 Subunits," <i>Journal of Virology</i> , Vol. 74, pp. 5091-5100, 2000.
AB	SAPHIRE, E. O. et al., "Crystallization and Preliminary Structure Determination of an Intact Human Immunoglobulin, b12: An Antibody That Broadly Neutralizes Primary Isolates of HIV-1," <i>Acta. Crystal. D. Biol. Crystal.</i> , Vol. 57, pp. 168-171, 2001.
AB	SATTENTAU, Q. J. et al., "Conformational Changes Induced in the Envelope Glycoproteins of the Human and Simian Immunodeficiency Viruses by Soluble Receptor Binding," <i>Journal of Virology</i> , Vol. 67, pp. 7383-7393, 1993.
AB	SRIVASTAVA, I. K. et al., "Changes in the Immunogenic Properties of Soluble gp140 Human Immunodeficiency Virus Envelope Constructs Upon Partial Deletion of the Second Hypervariable Region," <i>Journal of Virology</i> , Vol. 77, pp. 2310-2320, 2003.
AB	STAMATATOS, L. et al., "An Envelope Modification That Renders a Primary, Neutralization-Resistant Clade B Human Immunodeficiency Virus Type 1 Isolate Highly Susceptible to Neutralization by Sera From Other Clades," <i>Journal of Virology</i> , Vol. 72, pp. 7840-7845, 1998.
AB	STAMATATOS, L. et al., "Effect of Major Deletions in the V1 and V2 Loops of a Macrophage-Tropic HIV Type 1 Isolate on Viral Envelope Structure, Cell Entry, and Replication," <i>AIDS Res. Hum. Retroviruses</i> , Vol. 14, pp. 1129-1139, 1998.
AB	STARCICH, B. R. et al., "Identification and Characterization of Conserved and Variable Regions in the Envelope Gene of HTLV-III/LAV, the Retrovirus of AIDS," <i>Cell</i> , Vol. 45, pp. 637-64, 1986.
AB	SULLIVAN, N. et al., "Determinants of Human Immunodeficiency Virus Type 1 Envelope Glycoprotein Activation by Soluble CD4 and Monoclonal Antibodies," <i>Journal of Virology</i> , Vol. 72, 6332-6338, 1998.
AB	THALI, M. et al., "Discontinuous, Conserved Neutralization Epitopes Overlapping the CD4-Binding Region of Human Immunodeficiency Virus Type 1 gp120 Envelope Glycoprotein," <i>Journal of Virology</i> , Vol. 66, pp. 5635-5641, 1992.
AB	TRKOLA, A. et al., "CD4-Dependent, Antibody-Sensitive Interactions Between HIV-1 and its Co-Receptor CC4-5," <i>Nature</i> , Vol. 384, pp. 184-187, 1996.
AB	TRKOLA, A. et al., "Human Monoclonal Antibody 2G12 Defines a Distinctive Neutralization Epitope on the gp120 Glycoprotein of Human Immunodeficiency Virus Type 1," <i>Journal of Virology</i> , Vol. 70, pp. 1100-1108, 1996.
AB	WEI, X. et al., "Antibody Neutralization and Escape by HIV-1," <i>Nature</i> , Vol. 422, pp. 307-312, 2003.
AB	WENG, Y. et al., "Structure-Function Studies of the Self-Assembly Domain of the Human Immunodeficiency Virus Type 1 Transmembrane Protein gp41," <i>Journal of Virology</i> , Vol. 74, pp. 5368-5372, 2000.
AB	WILD, C. T. et al., "Peptides Corresponding to a Predictive α -Helical Domain of Human Immunodeficiency Virus Type 1 gp41 are Potent Inhibitors of Virus Infection," <i>Proc. Natl. Acad. Sci. USA</i> , Vol. 91, pp. 9770-9774, 1994.
AB	WILLEY, R. L. et al., "Control of Viremia and Prevention of Simian-Human Immunodeficiency Virus-Induced Disease in Rhesus Macaques Immunized with Recombinant Vaccinia Viruses Plus Inactivated Simian Immunodeficiency Virus and Human Immunodeficiency Virus Type 1 Particles," <i>Journal of Virology</i> , Vol. 77, pp. 1163-1174, 2003.

Sheet / OF /		Form PTO-1449	
U.S. Department of Commerce		DOCKET NO.: 53893-5046	APPLN. NO. : 10/767,648
		APPLICANT: James A. Hoxie	
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Date Filed: _____			

AB	WU, L. et al., "CD4-Induced Interaction of Primary HIV-1 gp120 Glycoproteins With the Chemokine Receptor CCR-5," <i>Nature</i> , Vol. 384, pp. 179-183, 1996.
AB	WU et al., "Interaction of Chemokine Receptor CCR5 With its Ligands: Multiple Domains for HIV-1 gp120 Binding and a Single Domain for Chemokine Binding," <i>J. Exp. Med.</i> , Vol. 186, pp. 1373-1381, 1997.
AB	WYATT, R. et al., "Functional and Immunologic Characterization of Human Immunodeficiency Virus Type 1 Envelope Glycoproteins Containing Deletions of the Major Variable Regions," <i>Journal of Virology</i> , Vol. 67, pp. 4557-4565, 1993.
AB	WYATT, R. et al., "Relationship of the Human Immunodeficiency Virus Type I gp120 Third Variable Loop to a Component of the CD4 Binding Site in the Fourth Conserved Region," <i>Journal of Virology</i> , Vol. 66, pp. 6997-7004, 1992.
AB	WYATT, R. et al., "The Antigenic Structure of the HIV gp120 Envelope Glycoprotein," <i>Nature</i> , Vol. 393, pp. 705-710, 1998.
AB	WYATT, R. et al., "Involvement of the V1/V2 Variable Loop Structure in the Exposure of Human Immunodeficiency Virus Type 1 gp120 Epitopes Induced by Receptor Binding," <i>Journal of Virology</i> , Vol. 69, pp. 5723-5733, 1995.
AB	XIANG, S. H. et al., "Mutagenic Stabilization and/or Disruption of a CD4-Bound State Reveals Distinct Conformations of the Human Immunodeficiency Virus Type 1 gp120 Envelope Glycoprotein," <i>Journal of Virology</i> , Vol. 76, pp. 9888-9899, 2002.
AB	XIANG, S. H. et al., "Characterization of CD4-Induced Epitopes on the HIV Type 1 gp120 Envelope Glycoprotein Recognized by Neutralizing Human Monoclonal Antibodies," <i>AIDS Res. Hum. Retroviruses</i> , Vol. 18, pp. 1207-1217, 2002.
AB	YANG, C. et al., "Analysis of the Murine Leukemia Virus R Peptide: Delineation of the Molecular Determinants Which are Important to Its Fusion Inhibition Activity," <i>Journal of Virology</i> , Vol. 71, pp. 8490-8496, 1997.
AB	YANG, X. et al., "Characterization of Stable, Soluble Trimers Containing Complete Ectodomains of Human Immunodeficiency Virus Type 1 Envelope Glycoproteins," <i>Journal of Virology</i> , Vol. 74, pp. 5716-5725, 2000.
AB	YANG, X. et al., "Highly Stable Trimers Formed by Human Immunodeficiency Virus Type 1 Envelope Glycoproteins Fused with the Trimeric Motif of T4 Bacteriophage Fibrin," <i>Journal of Virology</i> , Vol. 76, p. 4634-4642, 2002.
AB	ZHANG, Y. et al., "Use of Coreceptors Other than CCR5 by Non-Syncytium-Inducing Adult and Pediatric Isolates of Human Immunodeficiency Virus Type I is Rare in Vitro," <i>Journal of Virology</i> , Vol. 72, pp. 9337-9344, 1998.
AB	ZHOU, N. et al., "Exploring the Stereochemistry of CXCR4-Peptide Recognition and Inhibiting HIV-1 Entry With D-Peptides Derived from Chemokines," <i>J. Biol. Chem.</i> , Vol. 277, pp. 17476-17485, 2002.
AB	ZWICK, M. B. et al., "Broadly Neutralizing Antibodies Targeted to the Membrane-Proximal External Region of Human Immunodeficiency Virus Type 1 Glycoprotein gp41," <i>Journal of Virology</i> , Vol. 75, pp. 10892-10905, 2001.
AB	ZWICK, M. B., et al., "A Novel Human Antibody against Human Immunodeficiency Virus Type 1 gp120 is V1, V2, and V3 Loop Dependent and Helps Delimit the Epitope of the Broadly Neutralizing Antibody Immunoglobulin G1 b12," <i>Journal of Virology</i> , Vol. 77, pp. 6965-6978, 2003.

Examiner Signature: /Agnieszka Boesen/	Date Considered: 12/14/2006
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